MDOT
Michigan Department of Transportation

# OFFICE MEMORANDUM

**DATE:** January 23, 2004

**TO:** Region Engineers
Region Delivery Engineers
TSC Managers
Resident/Project Engineers
Region Construction Engineers

**FROM:** Larry E. Tibbits
Chief Operations Officer

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**SUBJECT:** Bureau of Highway Instructional Memorandum 2004-05
Asbestos Identification, Sampling, Notification, Removal and Disposal

This document is intended to provide guidance for the process to be used on bridge removal or rehabilitation projects where asbestos-containing materials may be present. This document shall be coordinated with the Supplemental Specification for Asbestos Notification and the Supplemental Specification for Asbestos Removal and Disposal. This document also provides guidance for sampling, testing, notification, removal, and disposal of asbestos.

Asbestos can be released during the removal or rehabilitation of bridges. It may be present in several forms, such as fiber conduits or ducts, water mains crossing structures if constructed with asbestos-containing pipe, asbestos-containing insulation wrapped around a water main, or hot mix asphalt overlays with asbestos waterproofing. Some fiber ducts have been known to contain asbestos if they were constructed from Transite. These ducts have been placed in the brush block, under the sidewalk, in the bridge barrier railings, or have been located between the beams.

Procedures for Asbestos Identification, Sampling, Notification, Removal and Disposal

The project manager shall coordinate with the region Transportation Service Center (TSC) utility coordination engineer to identify possible asbestos-containing material on structures.

The bridge designer shall review old structure plans for fiber ducts or conduits, overlays, and water mains located on the structure which have been known to contain asbestos. As part of the field review, the designer shall visually inspect the existing structure to identify possible asbestos-containing materials. The bridge designer shall coordinate the identification, sampling,

and testing with the project manager, region/TSC utility coordination engineer, and the region resource specialist.

The utility coordination engineer shall coordinate with the utility company or municipality to investigate and identify the materials that may contain asbestos. If the materials contain asbestos or their composition is unknown, the material shall be sampled and tested for asbestos.

After the potential asbestos-containing materials have been identified, the project manager shall coordinate sampling and testing of the potential asbestos to verify if asbestos is present. The sampling and testing of the asbestos shall be coordinated with the environmental compliance staff of the Geotechnical Services Unit, Construction and Technology Support Area. A certified asbestos inspection consultant is under contract to sample and test for asbestos. If the potential asbestos-containing material is not accessible (e.g., being encased in concrete), arrangements to expose the material for inspection and sampling will be necessary. The sampling and testing fees shall be charged to the design phase of the project. The asbestos inspection consultant will issue a copy of the test results with the inspection report. The project manager shall incorporate the test results into the plans or proposal. The TSC shall make the asbestos information available to the bridge and/or demolition contractor to be included in the contractor's *Notification of Intent to Renovate/Demolish* (Michigan Department of Environmental Quality Form EQP 5661).

Utility Reimbursement for Removal and Disposal Costs

The utility or municipality shall participate in the removal costs of the asbestos where applicable. This shall be included as part of the utility coordination clause and agreement. See Section 902.03 of the Michigan Department of Transportation's (MDOT) *Road Design Manual* to access the procedure for including utility work in MDOT contracts.

Supplemental Specifications

The project manager shall incorporate the applicable supplemental specification (SS204.1 or SS204.2) into the proposal; and if necessary, include the contract pay items for the removal of the asbestos-containing material.

In the event that asbestos-containing material has been discovered after a project has been let and the Supplemental Specification for Asbestos Removal and Disposal is not part of the contract, the supplemental specification shall be added to the contract with an extra item called "Removal and Disposal of Asbestos Materials." If the additional charges are to be passed on to the utility company, the utility coordination engineer shall provide written notice to the utility company regarding the asbestos removal and disposal charges which shall be the responsibility of the utility.

Please see the Department of Environmental Quality website, www.michigan.gov/deq, for further guidance and additional information on form EQP 5661.

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Chief Operations Officer Engineer of Delivery

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